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TOTIRESCU. G.; BUIMOVICI, D.; BAIA, E.

Variation in the apparent volume of young brown coal in a state of humidity. p. 299.

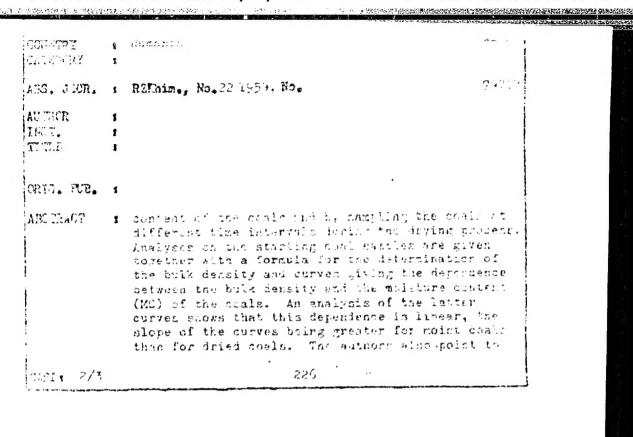
Academia Republicii Populare Romine. Institutul de Energetica. STUDII SI CERCETARI DE ENERGETICA. Bucuresti, Rumania. Vol. 8, no. 2, 1958.

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ABSTRACT	the presence of hysteresis, we the bulk density of the coals drying process is lower than tained during the gradual moi	recorded during the the bulk density ob-
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TODOROV, Naiden, inzh.; CHAUSHEV, Etoicho, inzh.; PANDEV, Lazar, inzh.; TOTEV, Totiu, tekhn.

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On the necessary product and the surplus product in socialism.

Probleme econ 16 no.313-16 Mr '63.

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antibody form., eff. of conditioned reflex)

(REFLEX. CONDITIONED.
eff. on antibody form.)

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Totka, Karoly (Szeged)

The Mutual Savings Bank is useful. Magy wasut 6 no.24:5 15 D 162.

TOTKA, Karoly (Szeged)

There was no time for more contributions. Hagy vasut 7 no.23:2 2 D 163.

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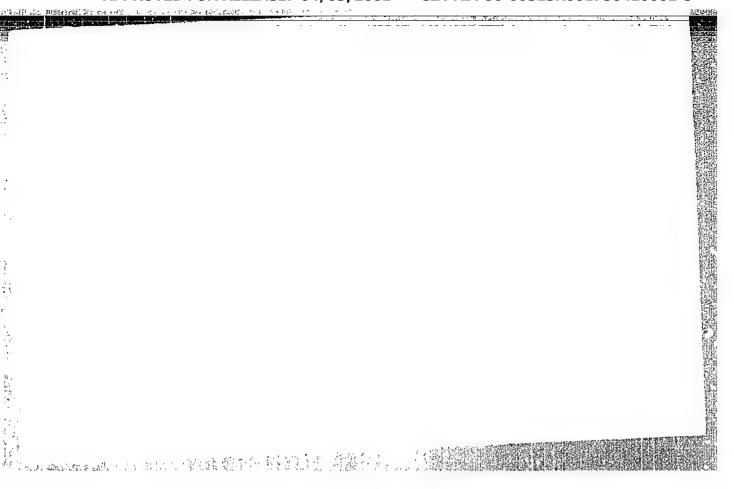
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1. Zaveduyushchiy kafedroy ekonomiki gornoy promyshlennosti Moskovskogo gornogo instituta imeni Stalina. (Moscow Basin--Coal mines and mining)

TOTMAKOV .A.

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We should strive with perseverance to lower the cost of coal.

Mast.ugl. 4 no.5:3-6 My '55. (MIRA 8:7)

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[Materials and technical equipment supply in the coal mining industry]
Material'no-tekhnicheskoe snabzhenie v ugol'noi promyshlennosti.
Moskva, Ugletekhizdat, 1956. 35 p. (MIRA 10:4)
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[Organization of management in the coal industry of the U.S.S.R.]
Organization upravlenia v ugol'noi promyshlennosti SSSR. Moskva,
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在日本 **医性性**经验检验 电影 医二甲基

TOTMAKOV, A.V., gornyy inzh.; KHANIN, M.Ya., gornyy inzh.

Ramming in blasting operations in Krivoy Rog Basin mines. Gor. zhur.
no.12:40-42 D '58. (MIRA 11:12)

(Krivoy Rog--Mining engineering)

SOV/127-59-12-10/26

AUTHORS:

Totmakov, A.y. and Khanin, M.Ya., "ining Engineers

TITLE:

The Use of Plugs in Blasting Operations in the Krivoy Rog Basin Mines (Primeneniye zaboyki pri vzryvnykh rabotakh v

shakhtakh Krivorozhskogo basseyna)

PERIODICAL:

Gornyy zhurnal, 1958, Nr 12, pp 40 - 42 (UBSR)

ABSTRACT:

The authors claim that the blasting of charges, placed in the blast holes without plugging them, is not only contrary to security regulations, but also decreases the impact of the explosion, requires larger quantities of explosives, and increases the amount of poisonous gases in the gallery. The names of following scientists are mentioned in the article: Doctor of Technical Sciences A.F. Belyayev, G.A. Shetler and M.A. Magoychenkov. There are

5 tables and 5 Soviet references.

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ZHANIYE, 1955. 23 b. (V. ZOYUENOYE OBUGE ETWO PO RESPROTRALENYU POLICICHELKIKH I MAUCHYYH ZUHHY. 1952, SEMIYA 3, NO. 22)

KOKAS, E; MICZBAN, I; TOTO, I

Effect of purine nuclectides on working capacity, on the heart and the suprarenal gland. Acta physical.hung. 7 no.4:409-420 1955.

1. Institute of Histology and Embryology, University Medical School, Budapest.

(PHYSICAL EFFICIENCY,

eff. of purine nucleotide in animals)

(PURINES, effects,

nucleotide, on phys. efficiency in animals)

(NUCLEOTIDES, effects,

purine nucleotide, on phys. efficiency in animals)

(ADRENAL CORTEX, effect of drugs on,

purine nucleotide)

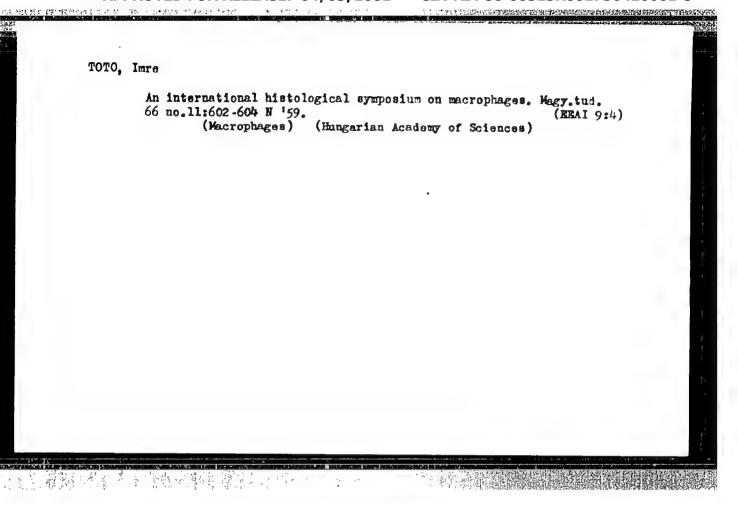
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TOTO, I. 19h8

(Anat.-Biol. Inst., U. of Debresen)

"The Humoral Pegulation of Storage in the Liver."

Acta Anatomica, Basle, 1948 5/h(311-342) Abst: Exc. Med. 1, Vol. 111, No. 9, p. 334



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PHASE I BOOK EXPLOITATION

448

Sokolov, Vasiliy Stepanovich

- Defektoskopiya materialov (Nondestructive Testing and Inspection of Materials) Moscow, Gosenergoizdat, 1957. 239 p. 7,000 copies printed.
- Ed.: Korikovskiy, I.K.; Tech. Ed.: Medvedev, L.Ya.; Scientific Eds. of the Book: Entin, S.D. of Part 1; Totochenko, L.K. of Part 2; Yakubovich, T.S. of Part 3; Sinitsyn, S.N. of Part 4.
- PURPOSE: This book is intended for engineers and technical personnel and may also be useful to students of technical institutes and persons specializing in nondestructive testing of materials.
- COVERAGE: This is a practical manual on nondestructive testing and inspection of materials. The author attempts to compile

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Nondestructive Testing and Inspection of Materials 448

in one book the most highly developed and widely employed methods industry for detecting flaws in materials and finished products. He presents descriptions of various new ideas and gives schematic diagrams of newly developed equipment which, although not widely used in industry, has been successfully tested in laboratories. Detailed information on magnetic, penetrant, ultrasonic and radiographic methods of inspection is given. The first part of this book deals with magnetic inspection which includes magnetic-particle and magnetic-tape recording methods. According to the author the magneticparticle inspection method is now widely used in aircraft and heavy machinery industries. The author states that general research work on magnetic-particle inspection was conducted by the magnetic laboratory of the Central Scientific Research Institute of Technology and Machinery, under the direction of N.I. Yeremin, and by the All-Union Scientific Research Institute of Aviation Materials, under the direction of A.V. Zhigadlo. Extensive research in this field is currently being conducted by the Central Scientific Research Laboratories of the Committee for the Control of Industrial Safety and Mine Inspection, USSR, where a number of new types of magnetic

Card 2/10

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Nondestructive Testing and Inspection of Materials

448

flaw detectors has been developed. The magnetic-tape recording flaw detector used in inspection of welded connections, illustrated on pages 20-21, was developed by the All-Union Scientific Research Institute for Construction in the Petroleum and Gas Industry. Illustrations of several other types of magnetic flaw detectors are also given. The author concludes that the sensitivity of magnetic inspection depends on such factors as methods of magnetization, magnetizing current, depth of flaw and the size and conditions of ferromagnetic particles, and is limited to magnetic materials only. The inspection of nonmagnetic materials is often accomplished by employing fluorescent-penetrant and dye-penetrant methods. These methods of inspection are described in the second part of the book. The description includes detailed information on the techniques and equipment used in penetrant methods of inspection. The author states that the sensitivity of these methods is very high but that he lacks sufficient information to draw a conclusion about the industrial value of this method. Part three of the book summarizes the

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Nondestructive Testing and Inspection of Materials 448

developments of ultrasonic methods of inspection in the Soviet Union and describes principles of operation of ultrasonic flaw detectors and their practical applications. Numerous illustrations and descriptions of various types of ultrasonic flaw detectors are presented. The descriptions also include flaw detectors used in the aircraft industry. These are types 86-IM, 86-IM-2 and 86-IM-3. The fourth part of the book deals with radiographic inspection. It includes X-ray, gamma-ray, Betatron, and fluorescent and photofluorescent methods. The procedures and equipment used in these methods of inspection are described in detail. Safety precautions and health measures in radiographic inspection using X-ray and gamma rays are discussed. There are 153 Soviet references.

TABLE OF CONTENTS:

Part I. Magnetic Inspection

1-1 General observations

Card 4/10

5

	The and Inspection of Materials 448	
onde	structive Testing and Inspection of Materials 448	5
	1-2 Magnetic particle inspection	5 6 6 16
	Physical fundamentals Physical fundamentals	16
٠	Physical fundamentals 1-3 Methods of product magnetization 1-4 Determination of magnetizing current 1-4 Determination powders and their preparation	16
	1-4 Determination of magnetizing or preparation 1-5 Ferromagnetic powders and their preparation 1-5 Ferromagnetic powders and their preparation	10
	1-5 Ferromagnetic powders and thousand inspected 1-6 Demagnetization of magnetically inspected	17
	products	-,
	products 1-7 Sensitivity of the magnetic-particle inspection	17
	method of inspection	20
	method 1-8 Magnetic tape-recording method of inspection 1-9 Magnetic inspection methods employing electric 1-9 Magnetic inspection methods employing electric	00
	1_0 Magnetic inspection means	22
	indicating instruments 1-10 Principle of operation of some magnetic inspection	24
	1-10 Principle of operation	32
	equipment Bibliography	J =
	Blollography Methods	
Dont	II. Fluorescent-penetrant and Dye-penetrant Methods	
of In	spection	
	5/10	

448 Agreed to the second secon	
Nondestructive Testing and Inspection of Materials 448	33
2-1 General observations 2-1 General observations 3 The physical nature of fluorescence and of the	33
fluorescent materials used in inspection and 2-3 Fluorescent materials used in inspection and	36 38
2-4 Sources of Hubbertons of fluorescent 2-5 Some practical applications of fluorescent	41 45
2-6 Dye-penetrant method of inspection	47
Bibliography Part III. Ultrasonic Inspection	48
3-1 General observations 3-2 Ultrasonic waves, their properties and laws of propagation 3-3 Physical fundamentals of ultrasonic inspection	49 56
Card 6/10	

Mondas	atmici	tive Test	ing and Inspection of Materials 448	
	2_4 1	Methods 0	of wave generation in distance	57
`	inspe	ction III trasoni	lc flaw detectors with continuous wave	61
	emiss	in trasoni	ic image converter with flaw indication	73
,	3-0 on el 3-7	ectron-be	eam tube olov's and B.D. Tartakovskiy's ultrasonic	76
	flaw	detector.		77 88
	3-9	Resonance	tion of crystal assemblies (search units)	91
	of ul 3-11 detection Bibl:	Some pra ctors lography	ctical applications of ultrasonic liaw	.10
Part	IV.	Radiogra	aphic Inspection	12
	4-1	General	observations their nature, and methods of producing the	em 12

Card 8/10

ondestructive Testing and Inspection of Materials 448 4-13 Useful experimental curves of sensitivity and exposure time in the photo-fluorescopic method of	
ondestructive leading on destructive leading of sensitivity	
time in the photo-little	f 168
inspection esime used in photo-liudiosephine	711
and their development film and diagrams	183
different types conducting photositude	100
inspection dispecting various arms	cts 191 195
using Padiographic inspection of Welder	208
4-19 Fluoroscopi methods for recording results	212 217
4-21 Employment of luminescent crystals 1. 4-21 Employment c	iuctors)
for inspection Card 9/10	

•	
Inspection of Materials 448	
Nondestructive Testing and Inspection of Materials 448 4-23 Safety techniques in radiographic inspection using	224
h_o2 Safety techniques in lauzos 1	235
X-ray and gamma rays Bibliography	
Appendixes 1. Specification of elements shown in the schematic	
at a man of an ultilasonitio	237
(p. 86, Fig. 3-39) 2. Health measures in industrial inspection using gamma rays	238
AVAILABLE: Library of Congress	
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ZLOBINSKIY, Boris Mikhaylovich; TOTOCHENKO, L.K., red.; KHUTORSKAYA, Ye.S., red. izd-va; KLEYNMAN, M.R., tekhn. red.

[Safety in the use of radioactive substances] Bezopasnost' rabot s radioaktivnymi veshchestvami. 2., dop. izd. Moskva, Gos. nauchnotekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 344 p. (MIRA 14:10)

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FATEYEVA, Ye.M.; TOTOCHENKO, V.K.; ROSHAL', N.I.; TROITSKAYA, N.A.

Differential diagnosis and treatment of some forms of ricketslike diseases in children. Pediatriia 42 no.9:69-74 S'63. (MIRA 17:5)

1. Iz kliniki rannego vozrasta (zaveduyushchiy - prof. I.V. TSimbler) biokhimicheskoy laboratorii (zaveduyushchiy - prof. A.A. Titayev) Instituta pediatrii (direktor - dotsent M.Ya. Studenikin) AMN SSSR.

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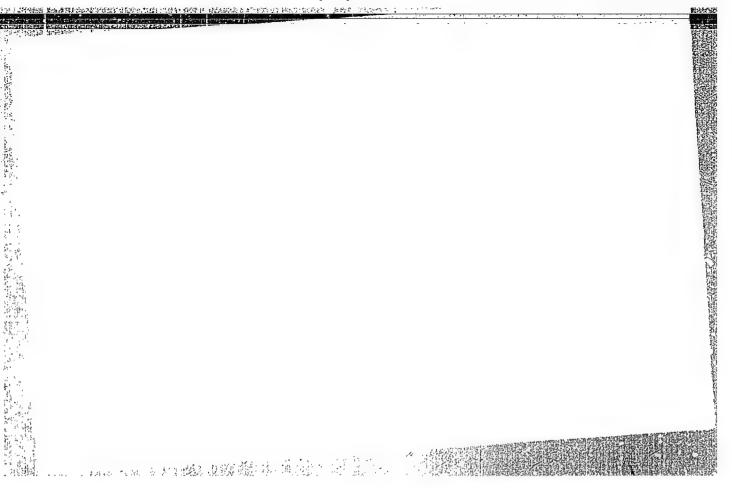
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KUROV, V.D.

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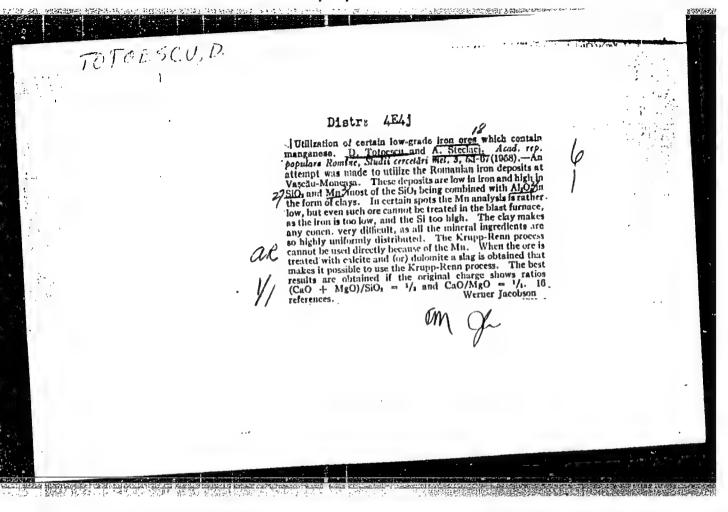
1. Iz fakul'tetskoy detskoy kliniki II Moskovskogo meditsinskogo
instituta (zav.-prof. P.A.Ponomareva)

(PURPURA, MONTHROMBOPENIC, in infant and child)

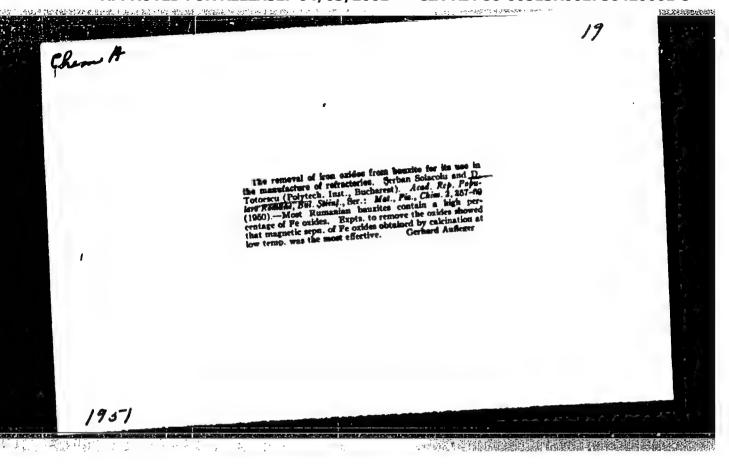


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1. 医医体性炎 16-13 15-13 16

STRUMPE, P.I., otvetstvenny red.; NOVIKOV, A.F., kand.tekhn.nauk, nauchnyy red.; RANIS, A.A., red.; TOTOK, A.G., red.; DROZHZHINA, L.P., tekhn. red.

[Preserving pile timbers from marine borers and rotting] Antiseptirovanie gidrotekhnicheskogo svainogo lesa protiv morskikh drevotochtsev i gniemiia. Leningrad, Izd-vo "Morskoi Transport," 1958. 84 p.

(Leningrad. TSentral'nyi nauchno-issledovatel'skii institut morskogo
(MIRA 11:11)

(Wood--Preservation) (Piling (Givil engineering))

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[Method of calculating strength of merchant ships] Metodika rascheta prochnosti morskikh transportnykh sudov.(Leningrad, Izd-vo "Morskoi transport", 1958. 127 p. Leningrad. TSentral'nyi nauchno-issledovatel'skii institut morskogo flota. Trudy no. 17)

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SZABO, Denes, Dr.; VARGA, Endre, Dr.; TOTOK, Gabriella Dr.

Potentiated local anesthesia. Orv. hetil. 99 no.43:1493-1497 26 Oct 58.

1. A Szegedi Varosi Tanacs Korhaza (igazgato: Nagy Inazlo dr.) Sebeszeti Osztalyanak (foorvos: Szabo Denes dr.) kozlemenye.

(HIBERNATIOH, ARTIFICIAL Dotentiation of local anesth. (Hun))

(ANESTHESIA, LOCAL potentiation by artif. hibernation (Hun))

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MALECZKI, Emil ; TOTOK, Sandor

Separation of uranium (VI) and thorium (IV) on anion-exchanging synthetic resins in hydrochloric medium. Veszprem Vegyip egy kozl 4 no.2:169-177 *60

1. Veszpremi Vegyipari Egyetem Analitikai Kemiai Tanszek.

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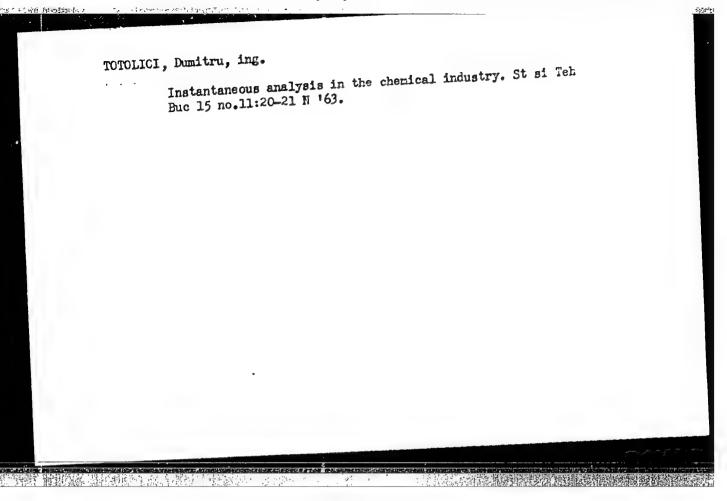
TOTOLICI, Dumitru, Eng. IPA [unidentified] Planner (Projectant).

"Complex Automation in the Chemical Industry."

Bucharest, Stiinta si Tehnica, Vol 15, No 7, Jul 63, pp 3-4.

Abstract: A popular-science review article on the nature and importance of automation in the chemical industry. It illustrates the process of automatic operation with an example from the chemical industry, the synthesis of hydrochloric acid, and one from the petroleum-processing industry, a distillation column. It also gives some figures relating to the beneficial results of automation. Includes 2 illustrations.

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"Complex Automation in the Chemical Industry."

Bucharest, Stiinta si Tehnica, Vol 15, No 7, Jul 63, pp 3-4.

Abstract: A popular-science review article on the nature and importance of automation in the chemical industry. It illustrates the process of automatic operation with an example from the chemical industry, the synthesis of hydrochloric acid, and one from the petroleum-processing industry, a distillation column. It also gives some figures relating to the beneficial results of automation. Includes 2 illustrations.

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PRODAN, M., ing.; TOTOLICI, D., ing.; DANCIU, C., cont.; DARBULESCU, D., ing.

Technical and economic considerations on the opportunity of automation introduction in a vegetal oil line. Ind alim veget 13 no.1:11-16 Ja '62.

Sectorul proiectari al intreprinderii "Automatica",
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TOTOLIN, P. Ye., dotsent, kand. tekhn. nauk Study of the performance of multiple-roller bearing and

turning devices on excavators. Sbor. trud. MISI no.39:217-221 161.

1. Moskovskiy inzhenerno-stroitel'myy institut imeni V. V. Kuybysheva.

(Excavating machinery—Testing)

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Graphic determination of stresses in links of walking mechanisms of excavators. Sbor.trud. MISI no.3:140-145 160. (MIRA 14:3) (Excavating machinery)

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GOMOZOV, I.M., knnd. tekhn. nauk; TOTOLIN, P.Ye., knnd. tekhn. nauk

Designing and testing the walking gear of the ESh-14/75. Stroi.
i dor. mashinostr. 4 no.11:8-12 N 159 (MIRA 13:3)

(Excavating machinery)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420001-5"

· 世事實力 實際關係。1912年,以及其中中的原理,其如何更好的企作

TOTOLIN. P. Ye.

"Investigation of the Operation of Bearing-Swivel Apparatus on Excavators for the Furpose of Increasing Accuracy of Computation and Design Methods." Cand Tech Sci. Moscow Order of Labor Red Banner Construction Engineering Inst imeni V.V. Kuybyshev, Min Higher EducationUSSR, Moscow, 1955. (KL, No 17, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

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APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756420001-5"

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TOTOLO, E., ing.

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1. Institutul de Projectari Schele.

TOTOLO, E., ing.

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TOTOLYAN, A.A.

Study of streptococcal bacteriophages; the properties of antiphage sear. Zhur.mikrobiol.i immun. 33 no.4:83-88 Ap '62. (MIRA 15:10)

1. Iz Instituta eksperimental noy meditsiny AMN SSSR, Leningrad.
(BACTERIOPHAGE) (SERUM) (STREPTOCOCCUS)

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SOURCE CODE: UR/0016/66/000/006/0129/0133

AUTHOR: Totolyan, A. A.

ORG: Institute of Experimental Medicine, Academy of Medical Science, SSSR (Institut eksperimental noy meditsiny AMN SSSR, Leningrad

TITLE: Obtaining protoplasts of group A hemolytic streptococci

SOURCE: Zh mikrobiol, epidemiol i immunobiol, no. 6, 1966, 129-133

TOPIC TAGS: infectious disease, cell fraction, streptococcus, BACTFRIAL DISEASE, DRUR EFFECT, CYTOLOGY

ABSTRACT:

A method of obtaining protoplasts of hemolytic streptococci resulted in. almost complete change of cells to protoplasts within 10-19 hours at 37°C. The protoplasts obtained possessed some sensitivity to penicillin Orig. art. has: 2 tables. and remnants of a cell wall.

[W.A. 50; CBE No. 10]

SUB CODE: 06/ SUBM DATE: 28Ju165/ ORIG REF: 002/ OTH REF: 008/

570.851.211.001.85.097.35

Biological characteristics of streptococcal bacteriophages. Mikrobiologiia 30 no.2:262-266 Mr-Ap '61. (MIRA 14:6)

1. Institut eksperimental noy meditsiny AMN SSSR, Leningrad. (BACTERIOPHAGE) (STREPTOCOCCUS)

TOTOLYAN, A.A.

Study of streptococcal bacteriophages. Adsorption capacity of bacteriophages. Zhur.mikrobiol. epid. i immun. 32 no.4: 68-72 Ap 161. (MIRA 14:6)

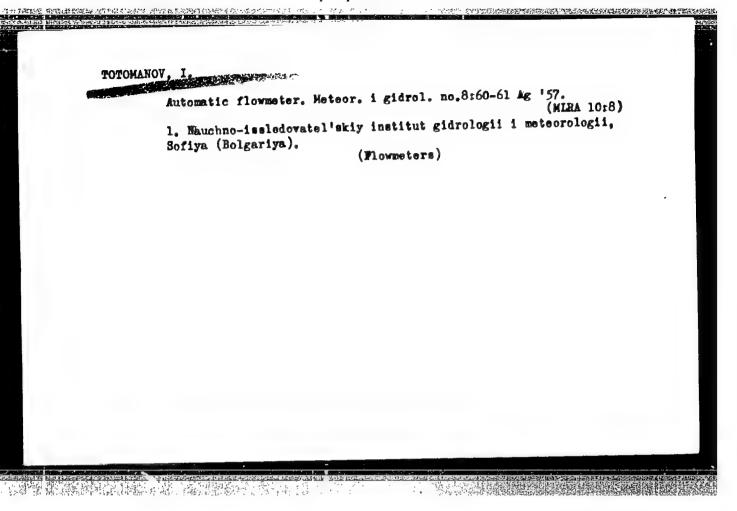
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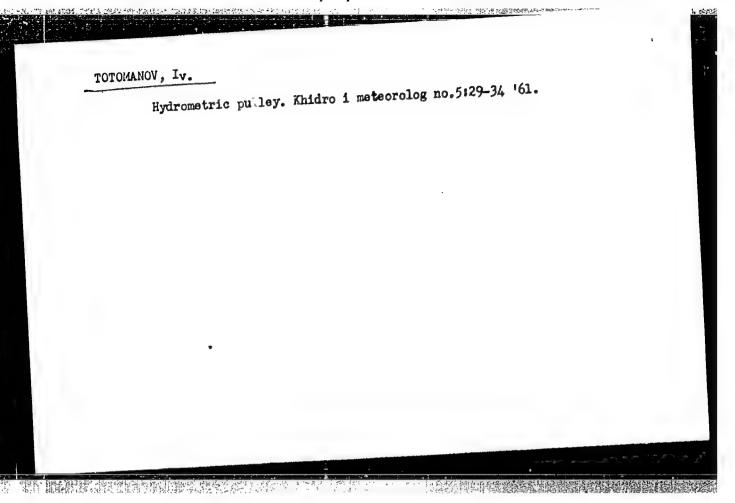
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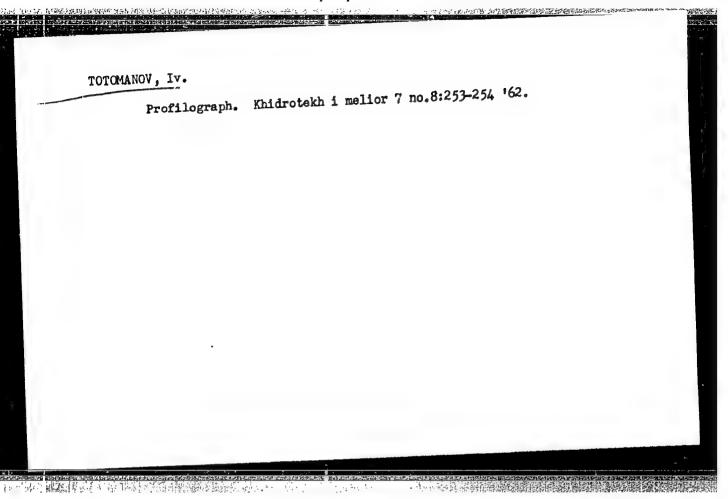
网络美国国际发展发展,并不是国际发展的发展的

Some possibilities of measuring interfaces on the basis of their electric properties. Izv Inst fiz khim 4:47-67 '64.

1. Institute of Physical Chemistry of the Bulgarian Academy of Sciences.



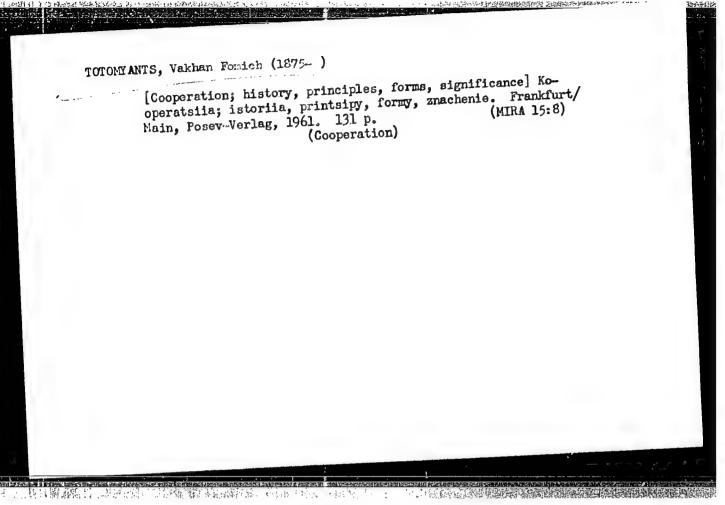


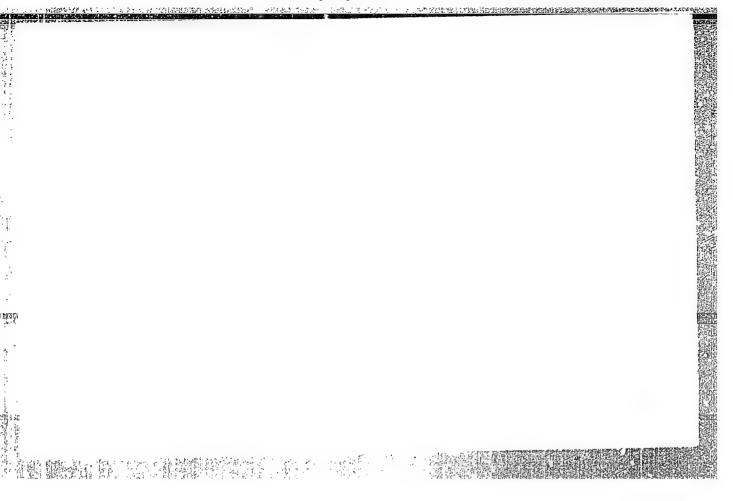


An improved irrigation water gauge. Khidro i meteorolog no.4:51-55 *62.

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於公司186日等的。1870年以及1887、龍、1867年2月1日日本





USSR/Electrochemistry

B-12

Abs Jour: Ref Zhur - Khimiya, No 8, 1957, 26330

Author

: A.P. Totopov, A.M. Takubov

Title

: To the question of Background Selection for Anode Polarography

in Non-Aqueous Solvents.

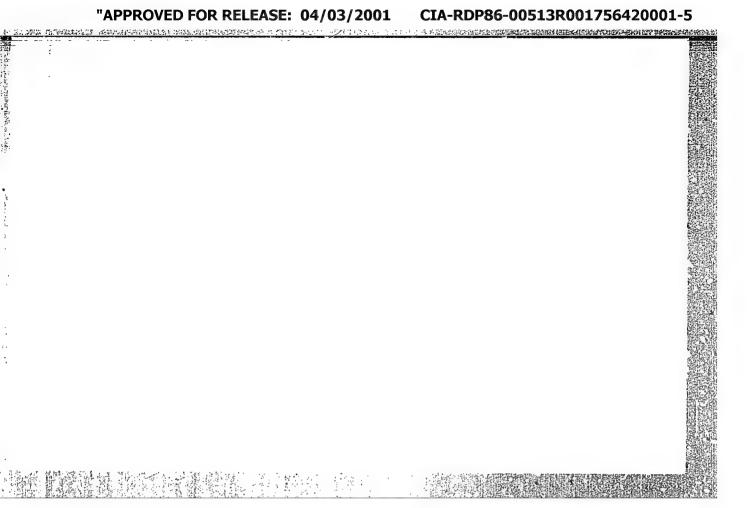
Orig Pub: Zh. fiz. khimii, 1956, 30, No 8, 1702-1706

Abstract: The solutions of KOH in methanol and ethanol, of NaI in

acetonitrile and (CH3)4NI in pyridine are suitable as background at anode polarographing with Hg drop electrode; addition of relatively large amounts of water to KOH solution

in ethanol does not cause any undesirable phenomena.

Card : 1/1



TOTOPOV, N. A. ---

USSR/Chemistry - Slags Chemistry - Cement May 49

"hydraulic Activity of Granulated Slags," N. A. Toropov, B. V. Volkonskiy, State All-Union Sci Res and Planning Inst of Cement Industries, 3 pp

"Dok Ak Nauk SSSR" Vol LXIV, No 1

Experiments discribed on synthetic slags of ternary system (CaO - Al₂O₃ - SiO₂) show that slags of vitreous structure with a greater heat energy reserve, as required by drfinition, are less active hydraulically than slags of the same composition which are crystallized and have a smaller reserve of heat energy. Submitted by Acad D. S. Belyankin, 8 Mar 49.

PA 50/49T25

"Rhodansulfides of rhodansulfones." Kretow, A. E. of <u>Totorowa, E. M.</u> (p. 2009)

SO: <u>Journal of General Chemistry</u> (Zhurnal Obshchei Khimii). 1937, Volume 7, No. 14.

NEW YORK CONTRACTOR STREET OF STREET STREET, STREET STREET, ST

TOTORCEA, C., ing.; BABALAU, D., ing.; NEMETH, L., ing.

Achievement of ventilation in the digging of a blind drift of great metric length. Rev min 14 no.7:308-316 Jl 163.

POPESCU, Ar.; TICAN, V.; DINCULESCU, P.; TOTORGEA, N.

等級 機能機能學的學 化多色溶性物质性物质性的

Preparation of the vaccine against Rubarth's disease with virulent fluid obtained from trypsinized cell cultures. Stud. cercet. 13 no.3:351-357 162.

1. Cumunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R. (HEPATITIS, ANIMAL) (DOG DISEASES) (VACCINES)

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TO THE STREET OF THE SECRET SHEET SH

<u>Γυιυσϊκή, κ. σ., απι ικιετούτκή, υ. 1α.,</u>

"Problem of the Effect of Chemical Contemination on the Electrical Characteristics of Certain Types of Suspension Insulators," p 413.

High Voltage Technique, Moscow, Gosenergoizdat, 1958, 664pp (Series: Its Trudy, No. 195)

This collection of articles sums up the principal results of investigations and studies made by Prof. A. A. Gorev, Dr. Tech. Sci., and his staff in the field of high voltage phenomena and techniques at LPI (Laningrad Polytech Inst.) It was at this institute that Prof. Govev completed his higher scientific education and then taught and carried on his investigations in the field until his death in 1953. In 1956, by decree of Min of Higher Education, the High-Voltage Lab. at LPI was named after A. A Gorev.

TOTOV, A. I.

PA E/LOTES

USSR/Chemistry - Organic Compounds Chemistry - Nitration Apr 48

"Oxide Nitration of Aromatic Nitrogen Compounds and Arylhydroxylamines," A. I. Titov, N. G. Laptev, Mil Acad imeni K. Ye. Voroshilov and the Sci Res Inst of Org Products and Dyes imeni K. Ye. Voroshilov, 62 pp

"Zhur Obshch Khim" Vol XVIII (LXXX), No 4

Shows that arcmatic nitroso compounds and arythydroxy-lamines, when subjected to the action of nitric acid, can undergo a varied series of transformations.

Describes compounds formed and suggests reaction mechanism. Submitted 14 Mar 1946.

8/49749

L 13243-63

EWT(d)/FCC(w)/BDS

AFFTC Pg-4

IJP(C) s/044/63/000/003/028/047

AUTHOR:

Totov, Georgi

(B)

TITLE:

On certain classes of integral equations of the form

 $\varphi(x) = \lambda \int_{-x}^{x} \frac{1}{x} P\left(\frac{y}{x}\right) \varphi(y) dy = f(x).$

PERIODICAL: Referativnyy Zhurnal, Matematika, no. 3, 1963, 65, Abstract 32295 (Godishnik Inzh .- Stroit. In-t. Fak. Stroit. Arkhitekt. i Gidrotekhn.,

v. 11, no. 1, 1959, 61-96; Bulgarian, summary in French).

Studies are made of the properties of solutions and methods for exact or approximate solution of equations of the form given in the title of the article (we shall call it equation (1)) under certain restrictions imposed on the function P(x/y); the real part of f(x) is assumed to be differentiable in the interval $a < x \le b$ a sufficient number of times. If P(t) is a polynomial of the (m - 1)-th degree in t, equation (1) is reduced by successive differentiations to an Euler ordinary differential equation of the m-th order. In the case

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On certain classes of integral

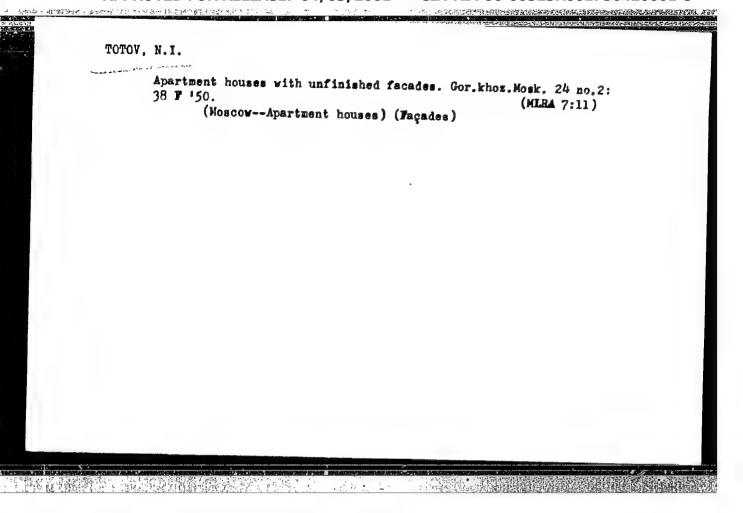
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a=0, when the kernel $\frac{1}{x}$ P $(\frac{x}{y})$ is unbounded at the point x=0, the solutions of equation (1) exist and coincide with those solutions u(x) of the nonhomogeneous Euler equation for which the integrals $\frac{x}{y}$ u(y) dy are finite. The existence

conditions and the properties of the solutions of equation (1) are formulated with the aid of the properties of the Euler equation to which it is reduced. The cases in which P(t) is an arbitrary function admit an approximate solution based on replacing the function P(t) by a section of its MacLauren x series expansion.

[Abstracter's note: Complete translation.]

Card 2/2



TOTOV, Ye.V.; LITVINENKO, L.M.; IZMAYLOV, N.A.

工程 在主义文艺是第二条主教统

Frequency bands of N-H valence vibrations, and the reactivity of amines. Part 1: Mononuclear m - and p-substituted anglines. Ukr. khim. zhur. 27 no.1:87-94 '61. (MIRA 14:2)

 Khar'kovskiy gosudarstvennyy universitet im. A.M.Gor'kogo. (Aniline—Spectra)

TOTOVA. M.: KOTULAN, J.; KINCL, L.

Bacterial air pollution; preliminary communication. Lek. listy, Brnc 8 no.23:557-559 1 Dec 1953. (CLML 25:5)

1, Of the Institute of Microbiology (Head--Prof. V. Tomasek, M.D.) of Masaryk University, Brno.

Technological testing of the AOZh-2 bleaching apperatus.
Nauch.-issl.trudy IvNITI 23:104-151 '59. (MIRA 14:4)
(Bleaching)
(Textile machinery—Testing)

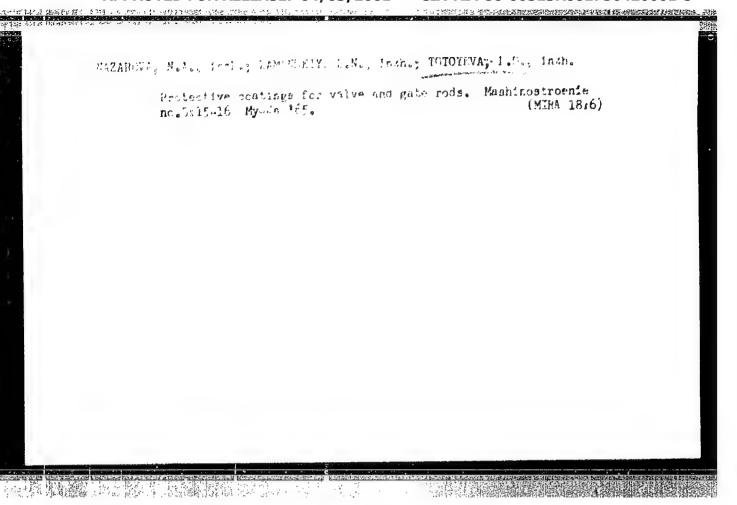
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TOTOYEV, Mikhail Soslenbekovich,

North-Ossetian State Pedagogical Inst imeni Khetagurov, Academic degree of Doctor of Historical Sci, based on his defense, 26 January 1954, in the Council of the Tbilisi State U imeni Stalia, of his dissertation entitled: "The development of culture and social thinking in North ossetia in the second half of the 19th and the beginning of the 20th Century".

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no 6, 197Mar 55, Byulleten' MVO SSSR, No. 14, July 56 Moscow pp 4-22, Uncl. JTRS/NY-429



生。因為我們學問了多樣的。

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TOTROV, A.G., red.; TREMBACH, K.V., red.; DZATTSEYEVA, T.A., red.; DZUGAYEVA, L.V., red.; DATRIYEVA, Ye.U., tekhn.red.

[Here is the joy of our work; about the students' brigade of the Kadgaron Secondary School] Vot ons - radost' truda; ob uchenicheskoi brigade Kadgaronskoi srednei shkoly.

Ordzhonikidze, Severo-Osetinskoe knizhnoe isd-vo, 1960. 42 p.

(MIRA 14:2)

(Kadgaron--Agriculture--Study and teaching)

544 p. illus "Literatura";	iny (Mining machi s., diagrs., table p. (543) - 544	nes) Moskva,	Metallurgizdat,	1952.
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- 1. ToTate, G.V.
- 2. USSR (600)
- 4. Technology

SECONDRIA GENERAL DE LA CASTA CONTRACTOR DE LA CASTA C

7. Mining machanes. Moskva, Metallurgizdat, 1952.

9. Manthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified.

LEVITSKIY, M.V.; TOTROV, G.V.; MAR'YENKOV, V.V.; LEVITSKIY, L.M.

Dispersed composition of dusts in complex ore mining. Izv. vys.ucheb.sav.; tsvet.met. 2 no.6:26-34 '59. (MIRA 13:4)

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1. Severokavkazskiy gornometallurgicheskiy institut. Kafedra spetskursov gornogo dela. (Monferrous metals) (Mine dusts)

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Tours of progenital fistulae. Prologiia. nc.5:62 164. (ATRA 19:8)

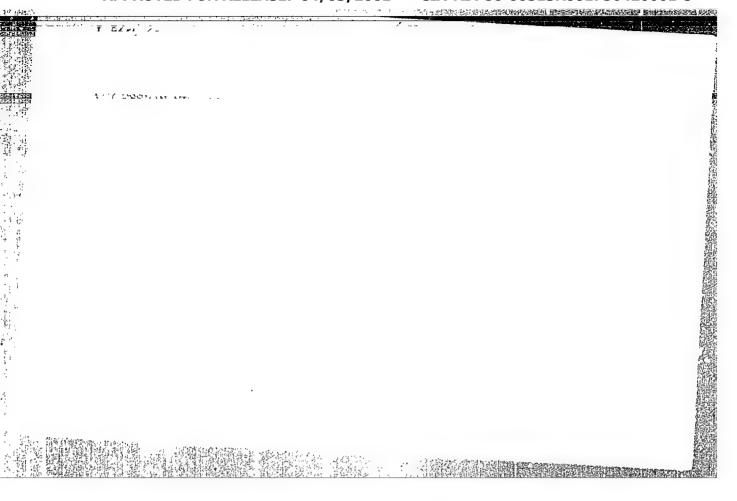
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Ezilikhov) na baze Tsontral'ncy klinicheskoy bol'nitay Orizhonikidze.

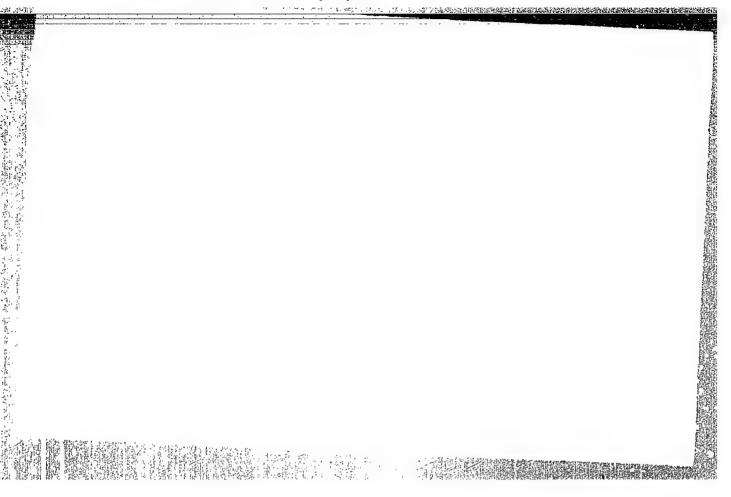
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DEGITARINA, E.V.; RAYRA ERTY, I.E.; I. Vir End., 21.

Sintoring of coramica and a virtures. Ognomery 29 no. 9:400 (21)

1. Ukrainskiy marcha.-issletovatoltakiy institut ognomerov.





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L 07418-67 EWP(e)/EWT(m) ACC NR 7AP6030778 SOURCE CCDE: UR/0363/66/002/009/1664/1670 (A)AUTHOR: Kaynarskiy, I. S.; Totsenko, S. B.; Legtyareva, E. V. ORG: Ukrainian Scientific Research Institute of Refractories (Ukrainskiy nauchnoissledovatel skiy institut ogneuporov) TITIE: Effect of heat treatment conditions on the mechanical and dielectric properties of highly refractory spinel-corundum ceramics SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 9, 1966, 1664-1670 TOPIC TAGS: corundum, ceramic, refractory, dielectric breakdown, bending strength, ABSTRACT: The effect of heat treatment on the breakdown voltage Ebr and bending strength obend of spinel-corundum specimens of various compositions was studied on specimens containing 30 and 70 wt. \$ Al203 and 70 and 30 wt. \$ spinel respectively. After firing, the specimens with 30\$ Al203 consist of a single-phase system in which Al203 has completely penetrated into the solid solution with spinel, whereas specimens with 70% Al203 consist of a two-phase system in which Al203 has partially penetrated into the solid solution and is chiefly present as corundum. Quenching from 1400-1600° of the two-phase specimens increases the Al203 content in the solid solution in spinel, thus increasing bend. Considerable decomposition of the solid solution after quenching from 1750°C and also a rapid simultaneous growth of the crystals decrease obend. The crystal growth lowers Epr, while quenching raises it. Quenching apparent-**Card** 1/2 666.761620.17+666.76154

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ly increases the microheterogeneity of the crystals of the solid solution, thus raising their microhardness. Decomposition of the solid solutions lowers the microhardness of the crystals. By decreasing the heterogeneity of the crystals, prolonged homogenizing lowers their microhardness. In single-phase specimens containing 30% Al₂O₃, an increase in microhardness and $\sigma_{\rm bend}$ is observed with an increase in the temperature from which the quenching is performed. E_{br} of these specimens substantially depends on the crystal size, diminishing as the latter increases. Orig. art. has: 9 figures and 3 tables.

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ORG: Ukrainian Scientific Research Institute of Refractories (Ukrainskiy nauchno-
TITLE: Properties of sintered spinel and spinel-corundum refractories
SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 9, 1966, 1671-1677
TOPIC TAGE.
TOPIC TAGS: refractory, ceramic product property, dielectric breakdown, corundum ABSTRACT: The effect of the temperature of synthesis of magnetic?
ABSTRACT: The officet as the secret RESISTINCE
ABSTRACT: The effect of the temperature of synthesis of magnesia spinel on the sinthesis spinel and spinel-corundum specimens during firing and on the properties of spinel causes the formation. A lowering of the temperature of synthesis of
the sintered body was studied. A lowering of the temperature of synthesis of the breakdown voltage. Introducts of higher density, which is a spinel causes the formation of products of higher density, which is a spinel to the sin-
spinel causes the formation of products of higher density, which increases their breakdown voltage. Introduction of corundum into spinel considerable and on the properties of the breakdown voltage.
breakdown voltage. Introduction of corundum into spinel considerably decreases their breakdown voltage of the articles, but increases their electrical registry.
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normal of the modulus of normal plasticity.
size of the crystals of the corner and spinel-corundum articles are largely determined by
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size of the crystals of the ceramic body, and are related to it by the equations of up to 5% forsterite into the spinel or spinel-corundum ceramic causes a consider- Cord 1/2
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A) BOURCE CODE: UR/0131/66/000/008/0047/0056

MINHOR: Degtyareva, Z. V.; Kaynarskiy, I. S.; Totsenko, S. B.

ORG: Ukrainian Scientific Research Institute of Refractory Materials (Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov)

TITLE: Studying sintering and recrystallisation of magnesian spinel and its aluminamixtures

SOURCE: Ogneupory, no. 8, 1966, 47-56

TOPIC TAGE: sintering, recrystallization, magnesium compound, aluminum compound, porosity

ABSTRACT: The authors study sintering of magnesian spinel synthesized at various temperatures, as well as spinel-corundum and spinel-γ-Al₂O₃. Both α- and γ-alumina and spinel roasted at 1200 and 1750°C are used for studying sintering of materials with various activity, where this activity determines solid phase interaction rate and degree of sintering. All of these materials were modified in various ways for the study. The results of the study show that sintering of spinel which was synthesized at 1750°C begins at 1200°C and proceeds uniformly at higher temperatures. The sintering of spinel synthesized at 1200°C begins at 1500°C but takes place on a more intensive scale at higher temperatures than spinel synthesized at 1750°C. Spinel sinter-

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ing kinetics are proportional to I with respect to elimination of open porosity and to ${\mathcal R}$ with respect to the elimination of closed porosity without regard to preliminary sintering temperature or specimen forming method. The addition of 3% alumina to spinel improves spinel sintering independently of the activity of the original material. This is explained by the formation of excess vacancies and the process is likened to the addition of spinel to alumina which also results in improved alumina sintering. A sharp increase in impurities has adverse effects on sintering. Sintering is at its minimum in mixtures composed of 70% spinel and 30% alumina. Variation in the degree of mixture sintering, where the mixture contains more than 30% alumina, is proportional to the molecular content of the free alumina in the mixture regardless of the activity of the original components. Spinel-alumina mixture sintering is considerably dependent on the activity of the original components and formation of raw materials. Low temperature spinel synthesis and pressing decreases the degree of sintering of spinel-alumina mixtures. Magnesian spinel crystals grow rapidly when the open porosity of the specimens is less than 5-6%. Increasing the rate of spinel crystal growing improves their closed porosity. The growth of spinel crystals can be significantly increased by adding 30% corundum. On the other hand, when corundum content is above 30% in the mixture, the system becomes two-phased and the growth of spinel crystals is retarded. Orig. art. has: 12 figures, 6 tables.

SUB CODE: 11, 20/ SUBM DATE: None/ ORIG. REF: 032/ OTH REF: 008

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L 10288-66 EWP(e)/EWT(m)/EWP(t)/EWP(b) IJP(c) JD/WH

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SOURCE CODE: UR/0131/65/000/010/0034/0036

AUTHOR: Degtyaryeva, E. V.; Totsenko, S. B.

38

ORG: Ukrainian Scientific-Research Institute of Refractories (Ukrainskiy nauchno-issledovatel skiy institut ogneuporov)

TITLE: Reducing shrinkage of sintered corundum articles

SOURCE: Ognuepory, no. 10, 1965, 34-36

TOPIC TAGS: corundum, <u>alumina</u>, porosity, powder metal sintering, insiganic opide

ABSTRACT: The porosity of samples from pure oxides, in particular from corundum, fired at relatively low temperatures could be decreased by saturation with the solutions of some salts, i. e. AlCl36H2O or MgCl26H2O, and a subsequent high-temperature firing. A multiple saturation of a corundum sample fired at 1200-1250 C with a solution of aluminum chloride followed by a high-temperature firing resulted in a considerable absorption of alumina and consequently in a

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decrease of the degree of porosity and reduction of shrinkage during sintering. Castings were made from alumina fired 6 hours at 1550 C and pulverized 4 hours by dry method in order to determine the shrinkage of corundum. A portion of the castings was made with the addition of magnesium oxide. The castings were fired 6 hours at 1200 C and were repeatedly saturated with aluminum chloride under vacuum and fired at 500 C. The results are shown in Table 1. The filling of pores

Table 1. Changes in porosity of fired alumina castings after multiple saturation with a saturated solution of aluminum chloride.

1. Contents of MgO%; 2. porosity before saturation; 3. porosity after saturation, %; 4. number of saturation; fations; 5. none.

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0,18	29.0 29.6 30.2	22,0 20,0 24,6	19.0 19.2 24.5	18.0 18.0 18.7	14.4 16,2 14,6		

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